

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

11/19/10

Doug Cannon  
Assistant District Attorney, Middlesex County

Dear ADA Cannon,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Khan.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

I, Annie Khan (Dookhan), was the custodial chemist and performed the preliminary testing and net weight for this sample. Della Saunders was confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

Annie Khan (Dookhan)  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631  
[Annie.Khan@state.ma.us](mailto:Annie.Khan@state.ma.us)

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services

Boston Drug  
Laboratory  
Tel (617) 983-6622  
Fax (617) 983-6625

Department of Public Health  
State Laboratory Institute

Amherst Drug  
Laboratory  
Tel (413) 545-2601  
Fax (413) 545-2608

Boston Hours  
8:00 – 11:00  
2:00 – 4:00

Amherst Hours  
9:00 – 12:00  
1:00 – 4:00

## DRUG RECEIPT

City or Department: Somerville Police Reference No. 

Name and Rank of Submitting Officer: Det. Barnard

Defendant(s) Name (last, first, initial)

Description of Samples

To be completed by Lab Personnel  
Gross Weight      Lab Number

11 clear plastic twist containing  
2 white substance

9.09g

Received by:

[Signature]

Date:

1-27-09

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services

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Department of Public Health  
State Laboratory Institute

Amherst Drug  
Laboratory  
Tel (413) 545-2601  
Fax (413) 545-2608

Boston Hours  
8:00 – 11:00  
2:00 – 4:00

Amherst Hours  
9:00 – 12:00  
1:00 – 4:00

## DRUG RECEIPT

City or Department: Somerville Police Reference No.: 

Name and Rank of Submitting Officer: Det. Barnard

Defendant(s) Name (last, first, initial)

Description of Samples

To be completed by Lab Personnel  
Gross Weight      Lab Number

Large plastic slide loc bag  
Containing a brown substance

424.97g

Received by:

ELO

Date:

1-27-07

## Curriculum Vitae

Annie Khan (Dookhan)

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry

### Experience:

2003 – present

Chemist II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.

- \*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.

- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

- \*Maintenance and repairs of analytical instruments.

- \*Maintain the Quality Control of analytical instruments and controls/standards.

- \* Maintain the Quality Control/Quality Assurance program for the drug lab.

- \*Notary Public

- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the Massachusetts Biologic Laboratory, Quality Control and Quality Assurance Department.

- \*Routine QC testing of products for the FDA.

- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).

- \*Complete testing of chemicals for Vendor Validation Project for the FDA.

- \*Method Development for creating new techniques for the QC Department.

- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept of Justice – Forensics Professionals

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with Massachusetts Biologic Laboratory and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

No. [REDACTED] Date Analyzed: MAY 14 2009  
City: Somerville Police Dept.  
Officer: Detective DET. BARNARD  
Def: [REDACTED]

Amount: Subst: SUB  
No. Cont: 11 Cont: pb  
Date Rec'd: 01/27/2009 No. Analyzed: 2  
Gross Wt.: 9.09 Net Weight: 5.56  
# Tests: 12 ASD

Prelim: Cocaine

Findings: Cocaine

+4 PJF

No. [REDACTED]

Date Analyzed: MAY 14 2009

City: Somerville Police Dept.

Officer: Detective DET. BARNARD

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 01/27/2009

No. Analyzed:

Gross Wt.: 424.97

Net Weight: 395.4

# Tests: 4 ASD

to Prof

Prelim: Heroin

Findings: heroin

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Somerville ANALYST ASD

No. of samples tested:           

Evidence Wt.                     

## PHYSICAL DESCRIPTION:

white powdered + chunky  
Substance in 11 pbs

Gross Wt ( 1 ): 5.8492

Gross Wt ( 2 ): 1.1707

Pkg. Wt:                     

Net Wt:                     

Mettler AB104 1117132502

Ohaus N1110 1125493265

## PRELIMINARY TESTS

### Spot Tests

2 Cobalt  
Thiocyanate (+)  
2 Marquis -  
2 Froehde's -  
2 Mecke's +

### Microcrystalline Tests

Gold  
Chloride +  
2 TLTA (+)

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 05-13-01

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS  
OPERATOR DCS

DATE 5-14-01

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Somerville ANALYST ASD

No. of samples tested:            Evidence Wt.                     

## PHYSICAL DESCRIPTION:

Brown powdered substance  
in 125

Gross Wt ( ): 402.0

Gross Wt ( ):                     

Pkg. Wt: 6.6

Net Wt: 395.4

Mettler AB104 1117132502  
Ohaus N1110 1125483269

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( + )                       
Marquis +                       
Froehde's +                       
Mecke's +                     

### Microcrystalline Tests

Gold  
Chloride                       
TLTA ( )                     

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 05-13-09

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR DCS

DATE 5-14-09

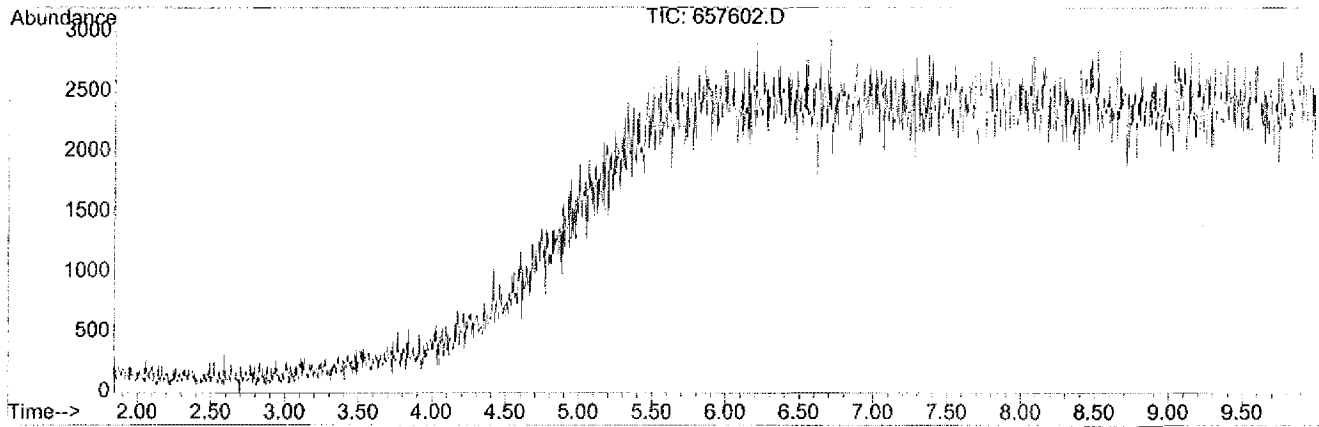


Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657602.D  
Operator : DCS  
Date Acquired : 13 May 2009 11:28  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

✓ ASD  
10-29-05



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

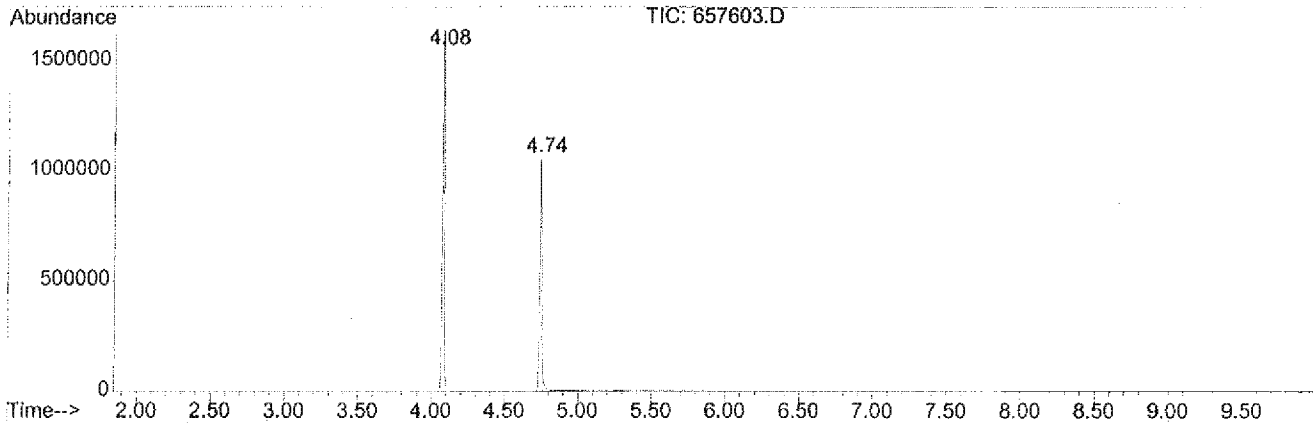
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657603.D  
Operator : DCS  
Date Acquired : 13 May 2009 11:42  
Sample Name : QC MIX  
Submitted by :  
Vial Number : 3  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.077	1575795	60.95	100.00
4.743	1009456	39.05	64.06

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# Area Percent / Library Search Report

**Information from Data File:**

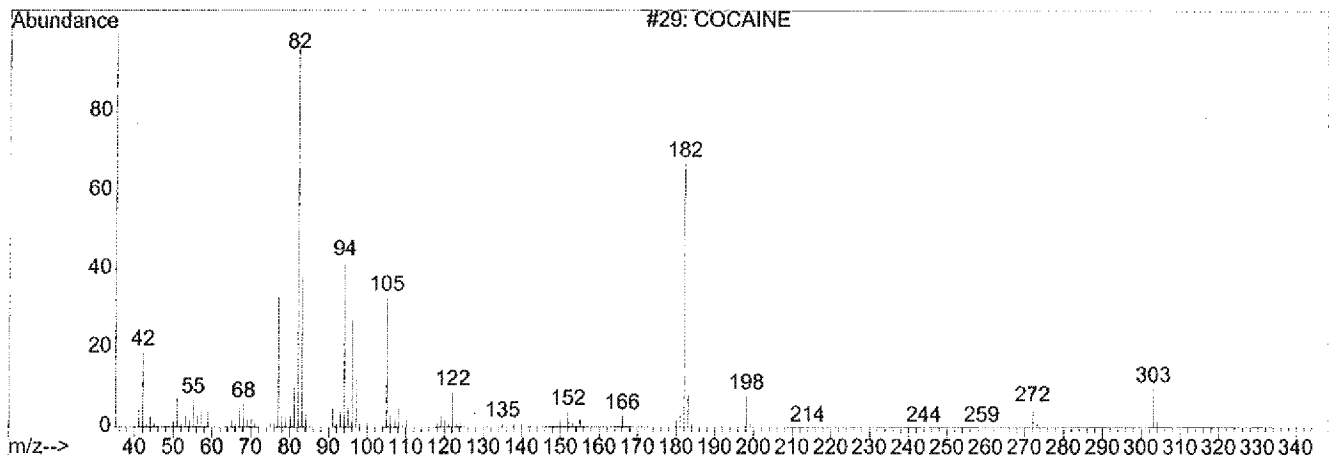
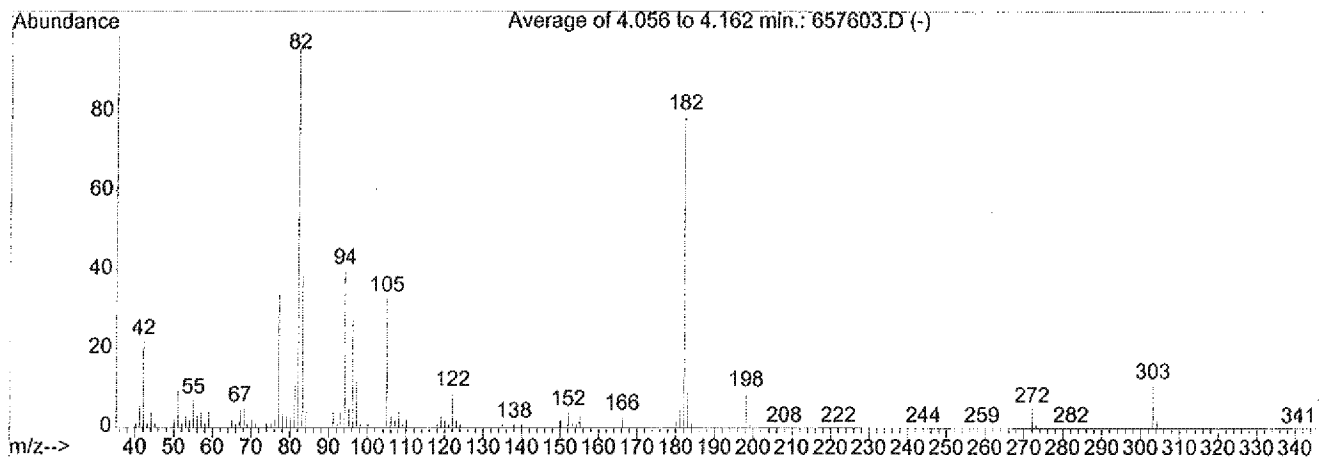
```

File Name       : E:\Q2-2009\SYSTEM4\05_13_09\657603.D
Operator        : DCS
Date Acquired   : 13 May 2009  11:42
Sample Name     : QC MIX
Submitted by    :
Vial Number     : 3
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.08	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



# Area Percent / Library Search Report

**Information from Data File:**

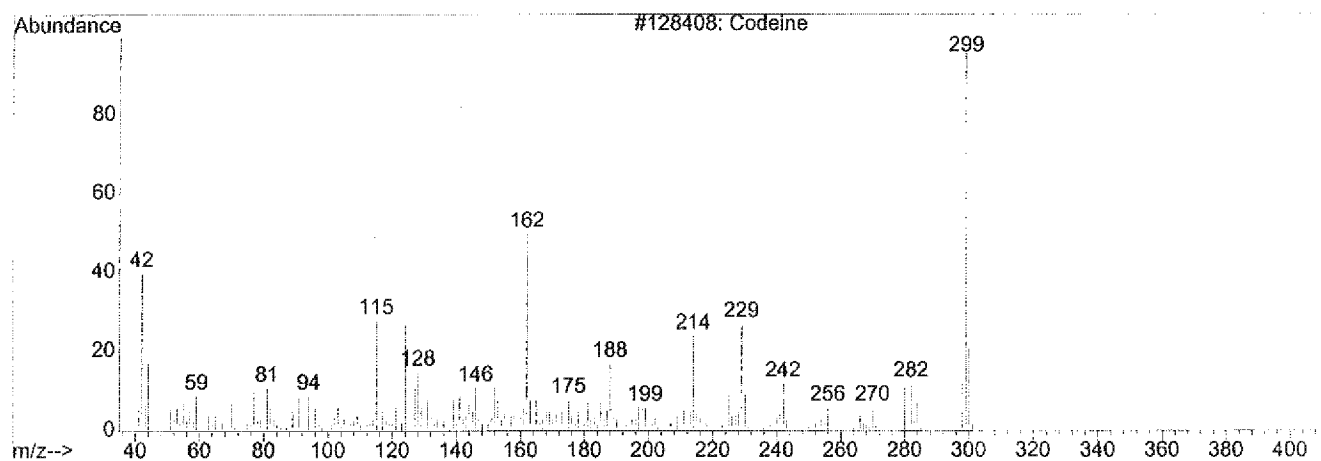
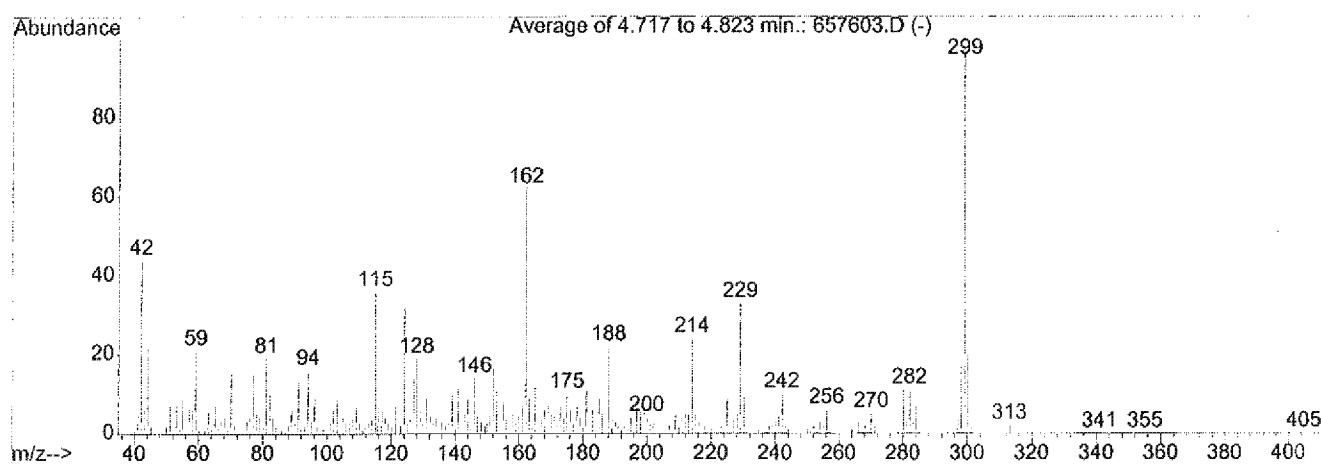
```

File Name       : E:\Q2-2009\SYSTEM4\05_13_09\657603.D
Operator        : DCS
Date Acquired   : 13 May 2009  11:42
Sample Name     : QC MIX
Submitted by    :
Vial Number     : 3
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	4.74	C:\DATABASE\NIST98.L		
		Codeine	000076-57-3	99
		Codeine	000076-57-3	99
		Codeine	000076-57-3	97



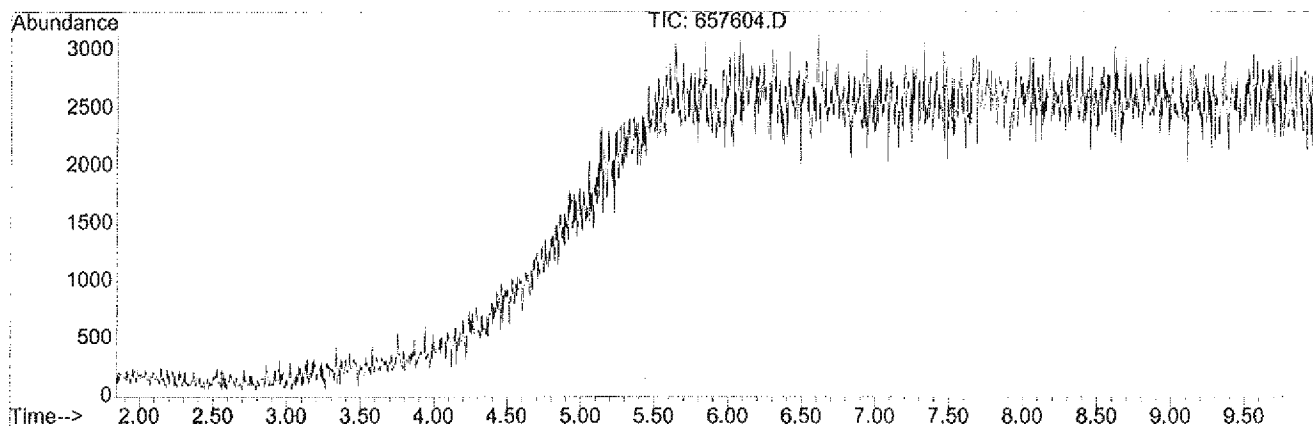
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657604.D  
Operator : DCS  
Date Acquired : 13 May 2009 11:55  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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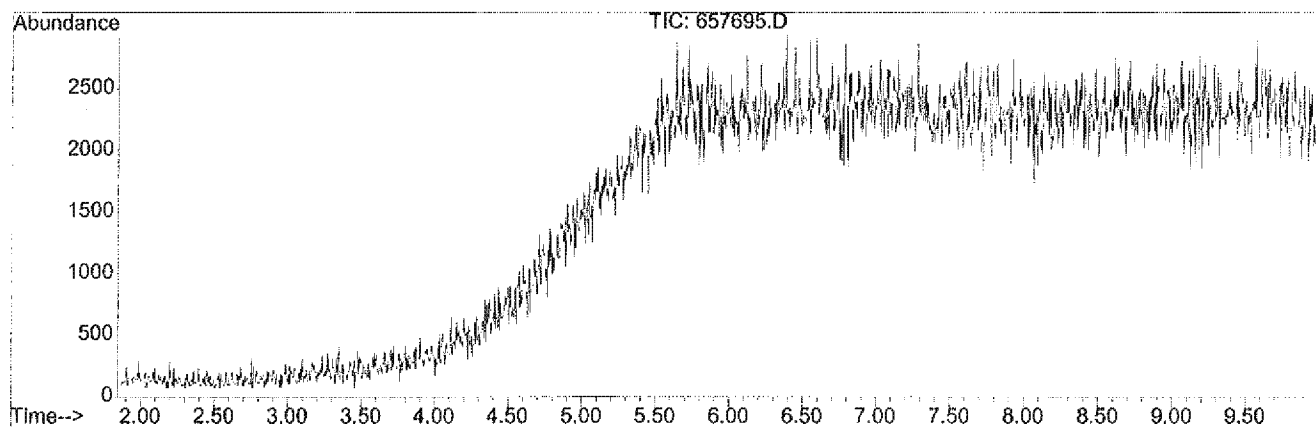
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657695.D  
Operator : DCS  
Date Acquired : 14 May 2009 8:43  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE



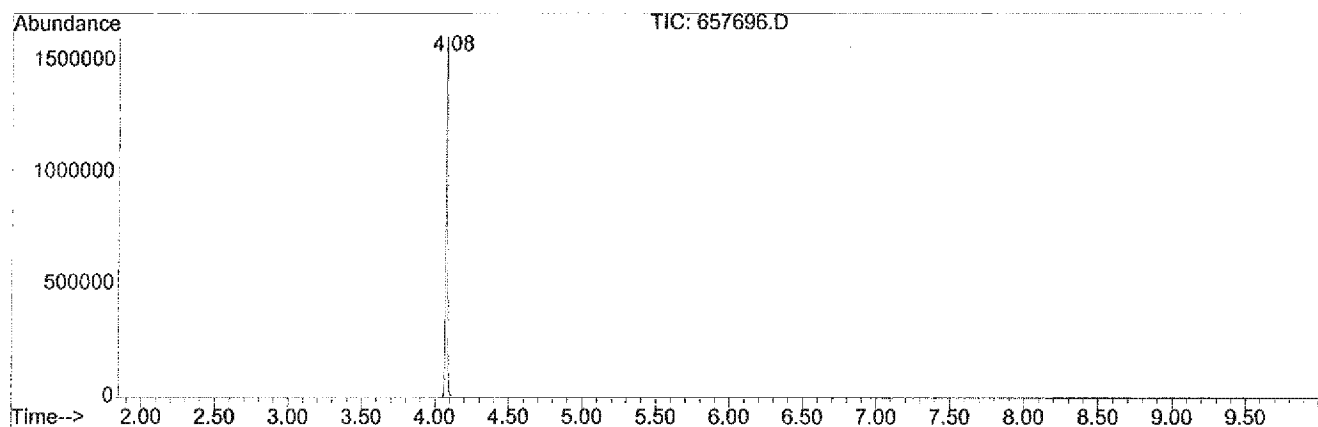
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657696.D  
 Operator : DCS  
 Date Acquired : 14 May 2009 8:57  
 Sample Name : COCAINE STANDARD  
 Submitted by :  
 Vial Number : 96  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.077	1351763	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

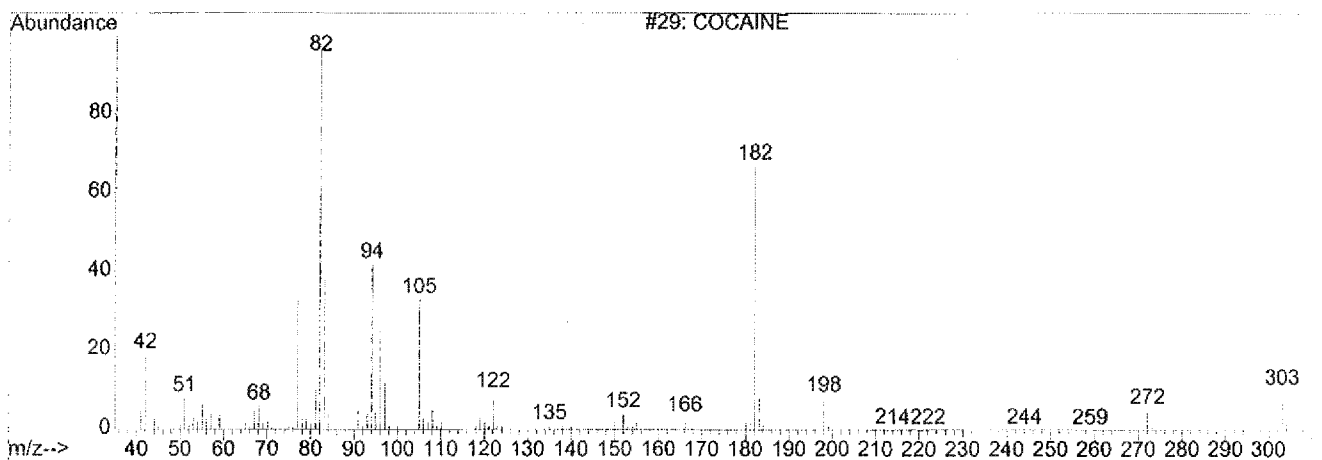
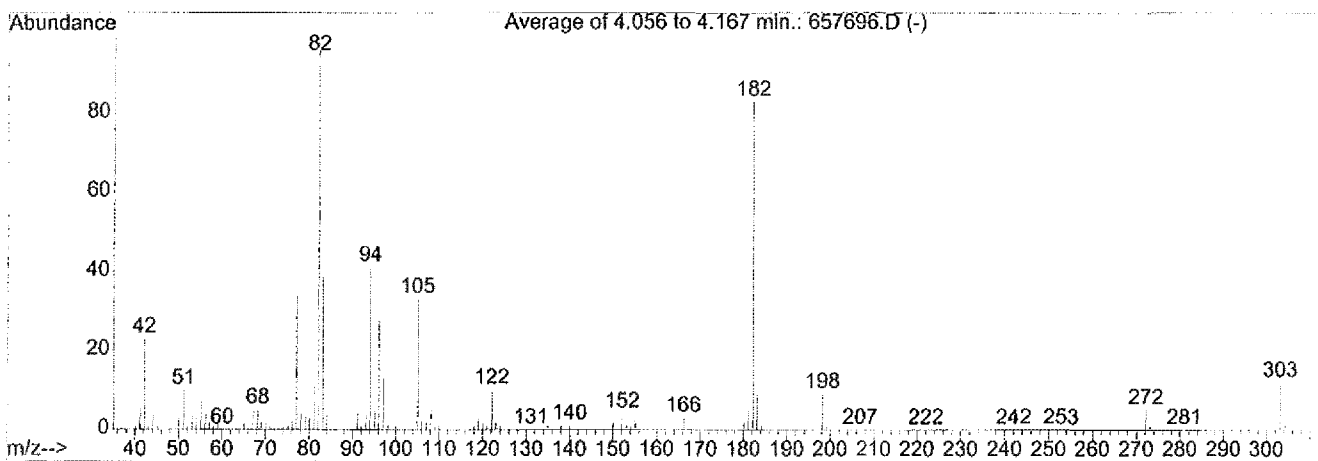
```

File Name       : E:\Q2-2009\SYSTEM4\05_13_09\657696.D
Operator        : DCS
Date Acquired   : 14 May 2009   8:57
Sample Name     : COCAINE STANDARD
Submitted by    :
Vial Number     : 96
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.08	C:\DATABASE\SLI.L COCAINE	000050-36-2	99





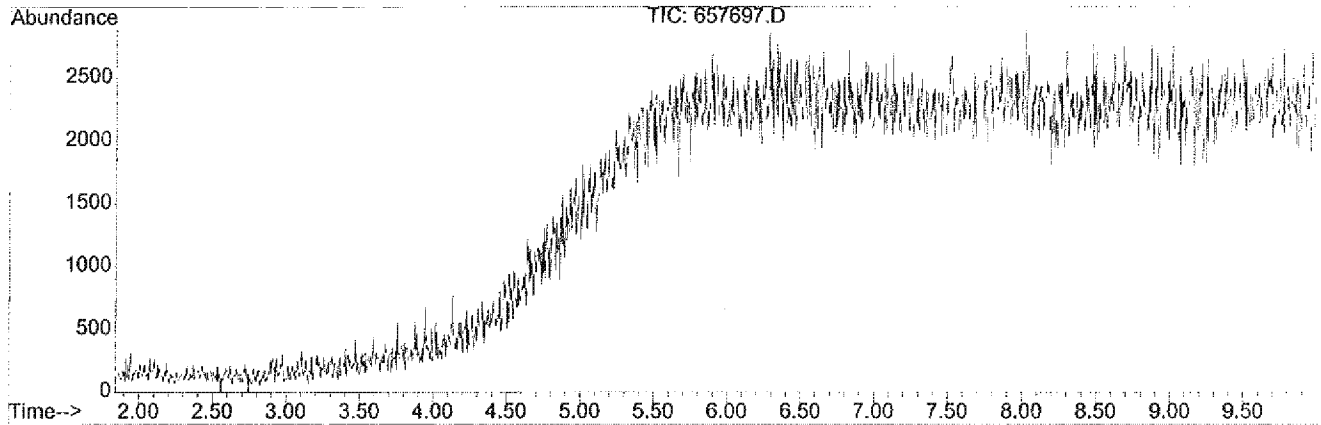
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657697.D  
Operator : DCS  
Date Acquired : 14 May 2009 9:11  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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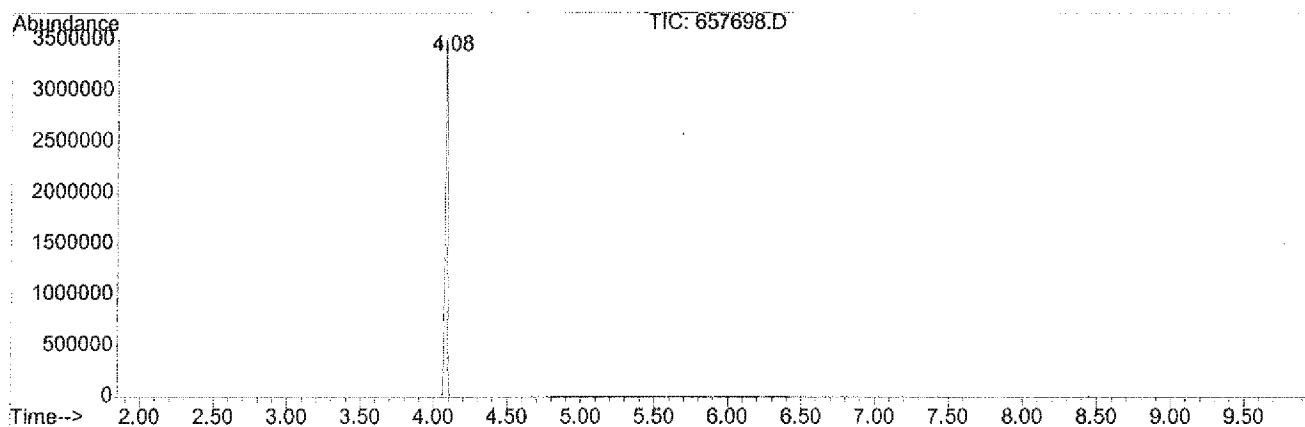
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657698.D  
 Operator : DCS  
 Date Acquired : 14 May 2009 9:24  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 98  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.084	3859434	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

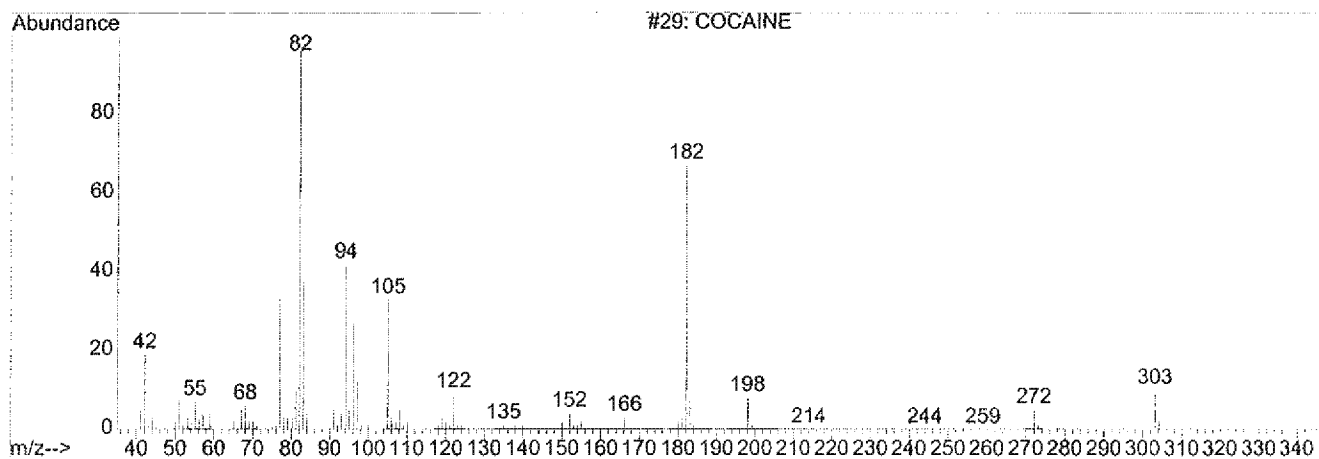
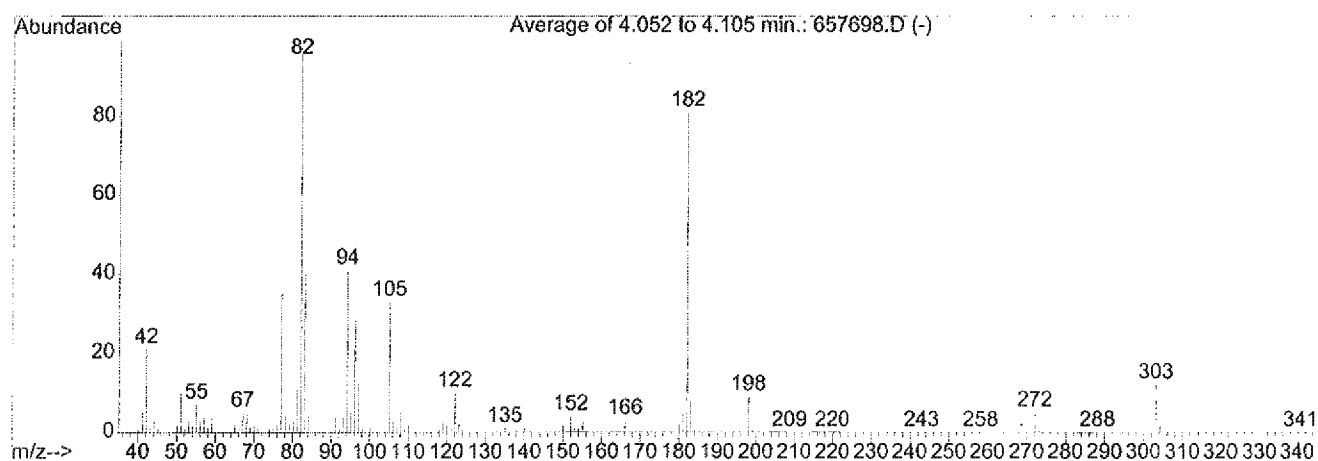
```

File Name       : E:\Q2-2009\SYSTEM4\05_13_09\657698.D
Operator        : DCS
Date Acquired   : 14 May 2009   9:24
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 98
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

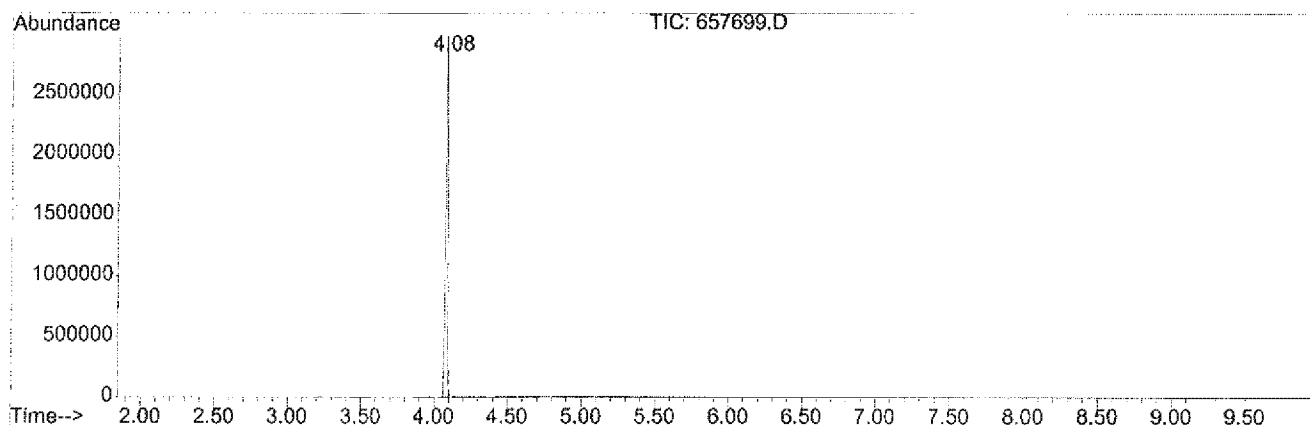
PK#	RT	Library/ID	CAS#	Qual
1	4.08	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



# Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657699.D  
 Operator : DCS  
 Date Acquired : 14 May 2009 9:38  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 99  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.081	2948234	100.00	100.00

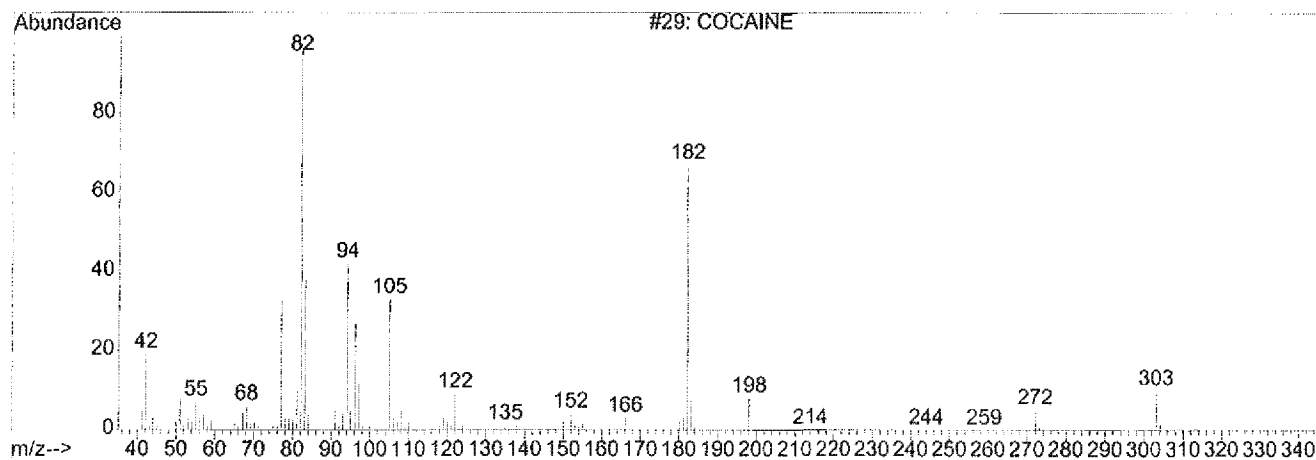
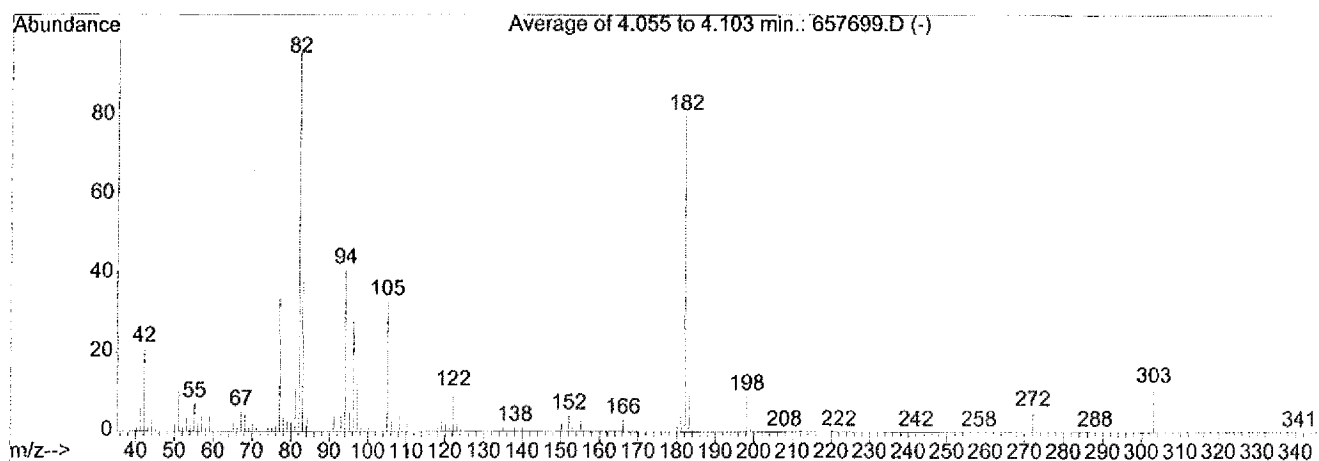
# Area Percent / Library Search Report

**Information from Data File:**

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657699.D  
 Operator : DCS  
 Date Acquired : 14 May 2009 9:38  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 99  
 AcquisitionMeth: DRUGS  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.08	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



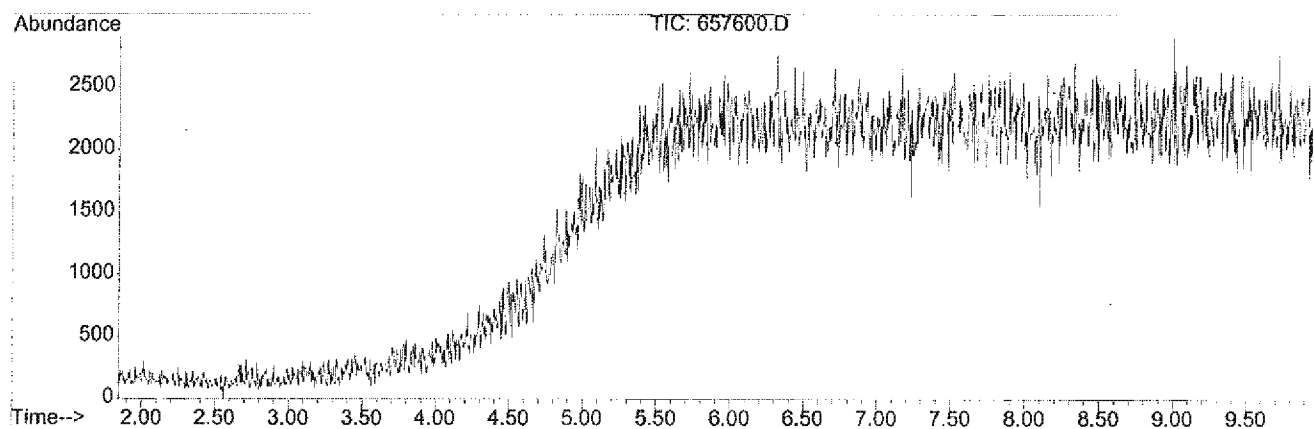
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\657600.D  
Operator : DCS  
Date Acquired : 14 May 2009 9:51  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

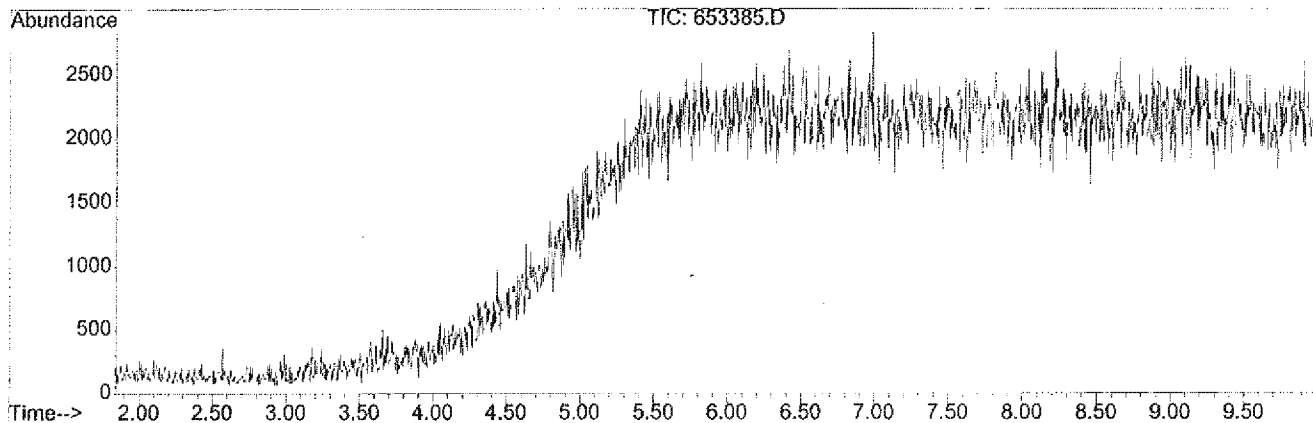
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653385.D  
Operator : DCS  
Date Acquired : 14 May 2009 10:05  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

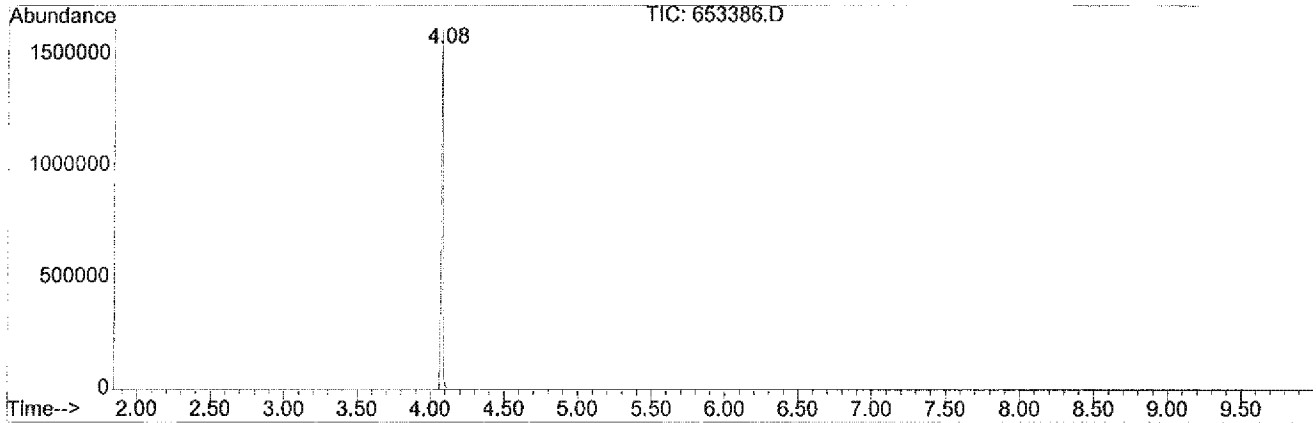
Area Percent / Library Search Report

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Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653386.D  
Operator : DCS  
Date Acquired : 14 May 2009 10:18  
Sample Name : COCAINE STANDARD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.075	1407158	100.00	100.00

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# Area Percent / Library Search Report

**Information from Data File:**

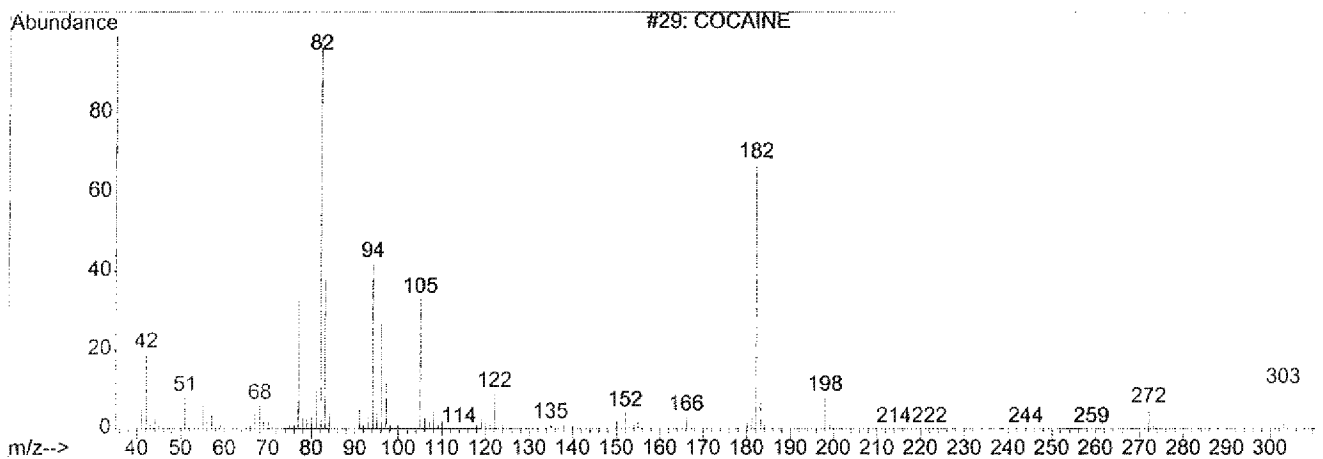
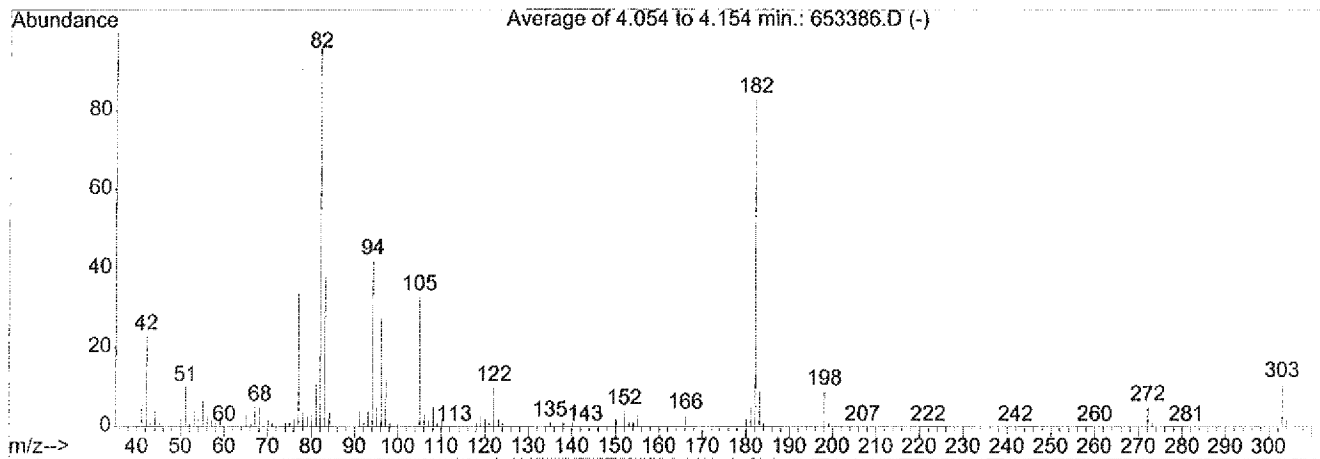
```

File Name       : E:\Q2-2009\SYSTEM4\05_13_09\653386.D
Operator        : DCS
Date Acquired   : 14 May 2009  10:18
Sample Name     : COCAINE STANDARD
Submitted by    :
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.08	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



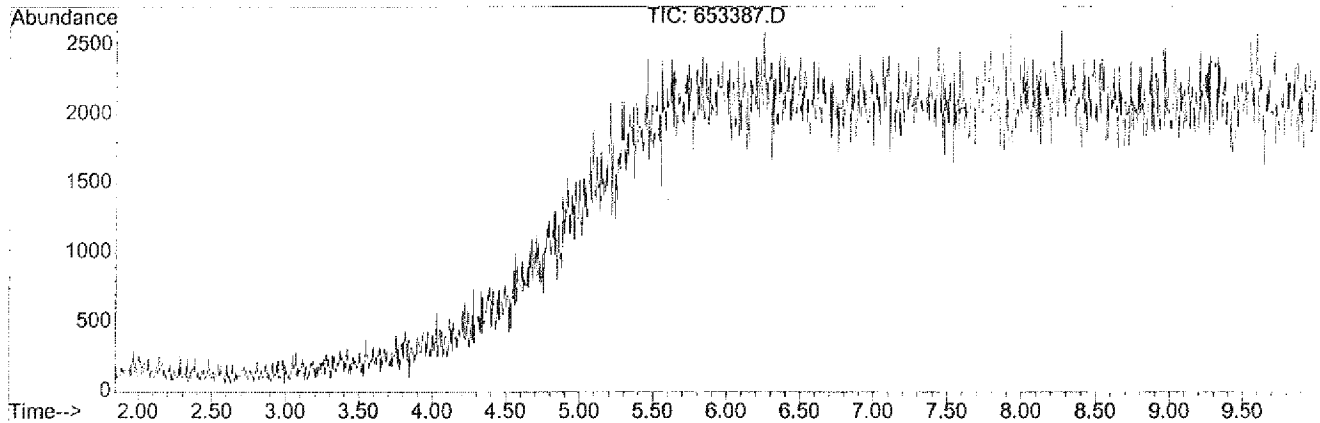
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653387.D  
Operator : DCS  
Date Acquired : 14 May 2009 10:32  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

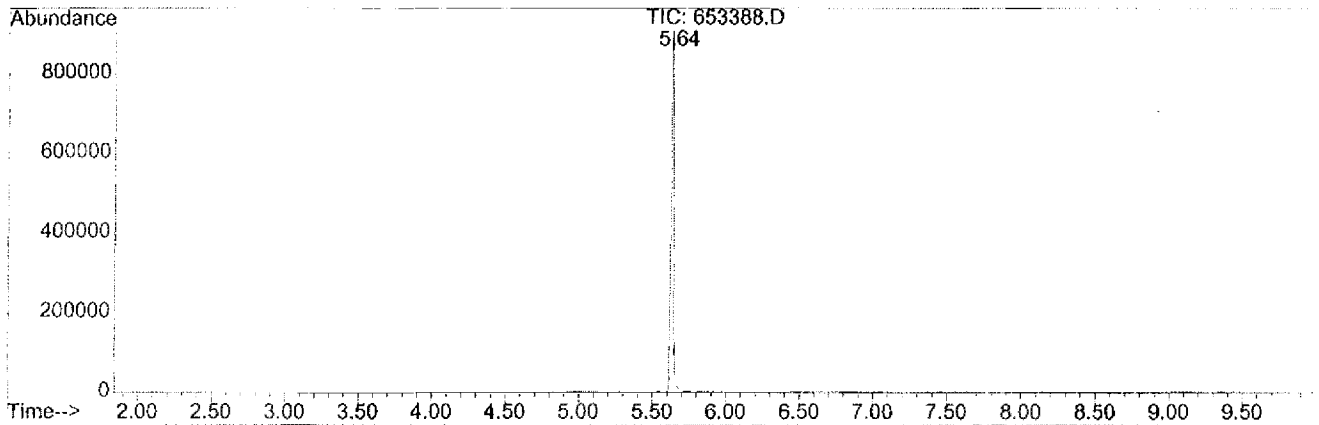
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653388.D  
Operator : DCS  
Date Acquired : 14 May 2009 10:45  
Sample Name : HEROIN STANDARD  
Submitted by :  
Vial Number : 4  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
5.635	1104005	100.00	100.00

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# Area Percent / Library Search Report

**Information from Data File:**

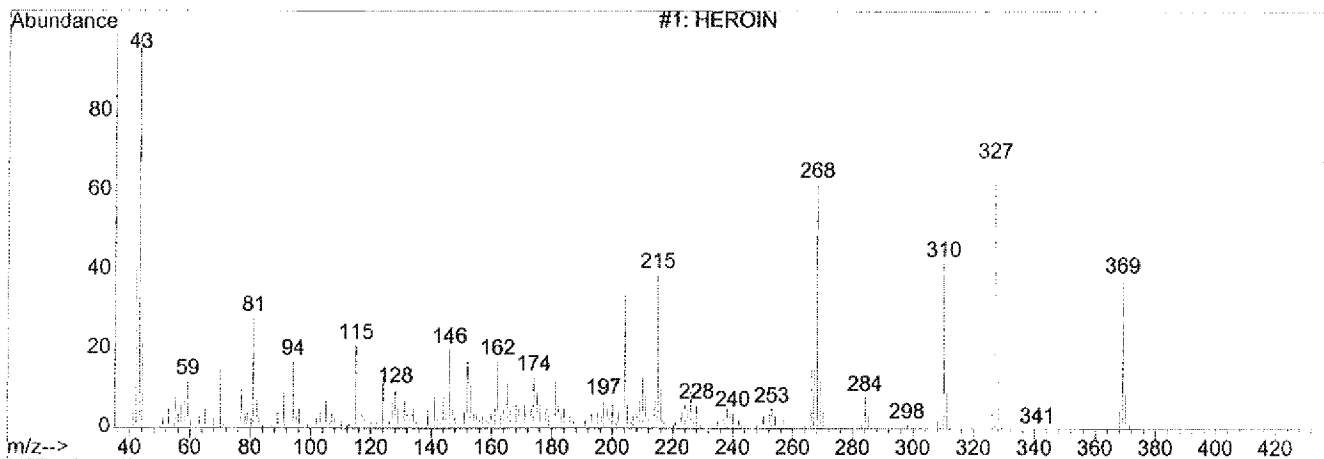
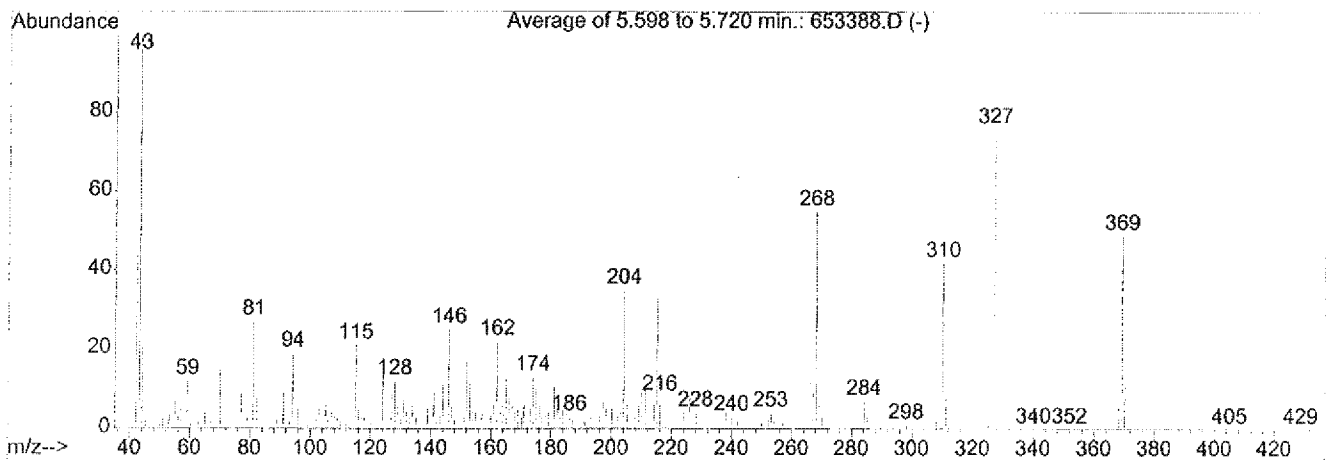
```

File Name       : E:\Q2-2009\SYSTEM4\05_13_09\653388.D
Operator        : DCS
Date Acquired   : 14 May 2009  10:45
Sample Name     : HEROIN STANDARD
Submitted by    :
Vial Number     : 4
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	5.64	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



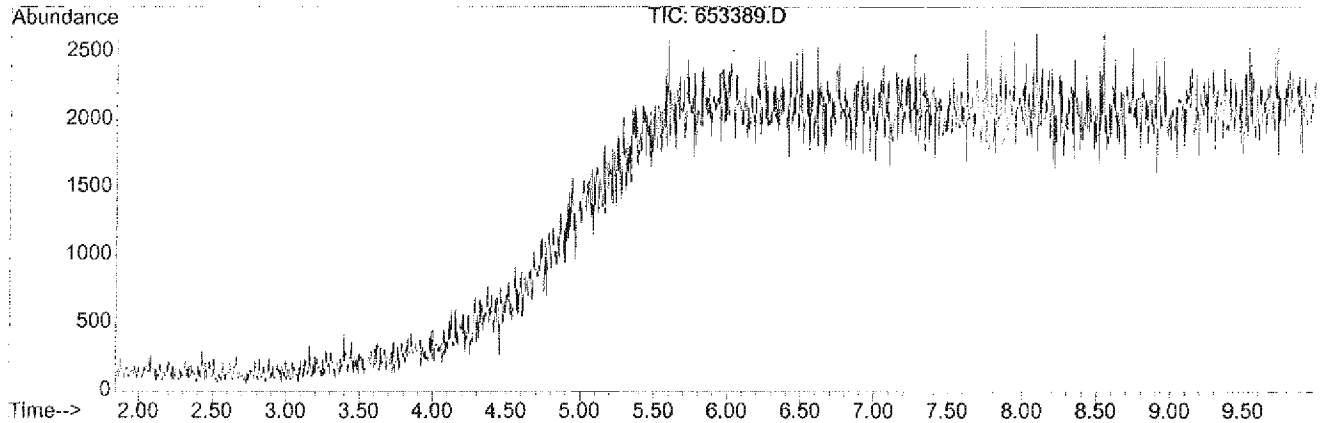
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653389.D  
Operator : DCS  
Date Acquired : 14 May 2009 10:59  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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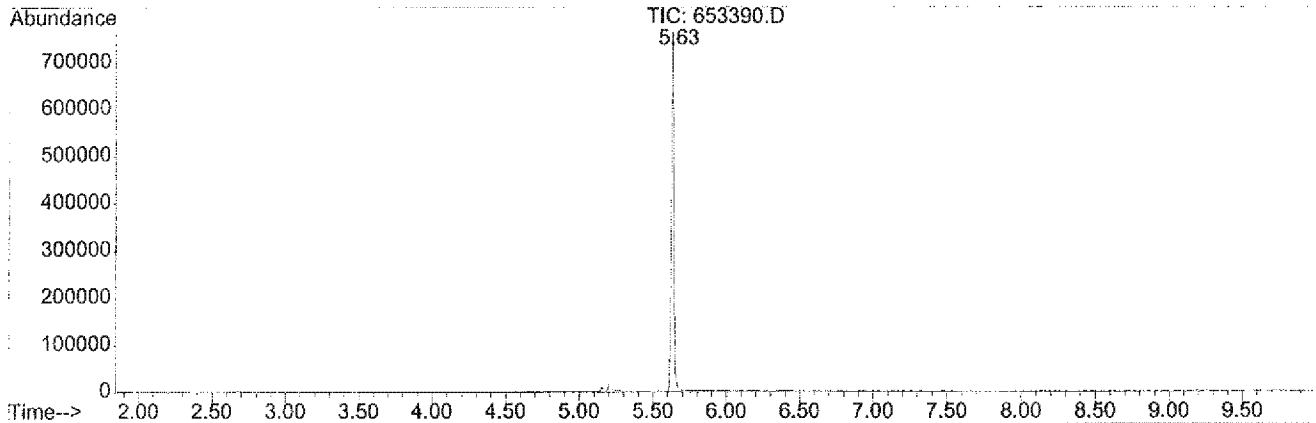
---

\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653390.D  
 Operator : DCS  
 Date Acquired : 14 May 2009 11:13  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 6  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.630	868283	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

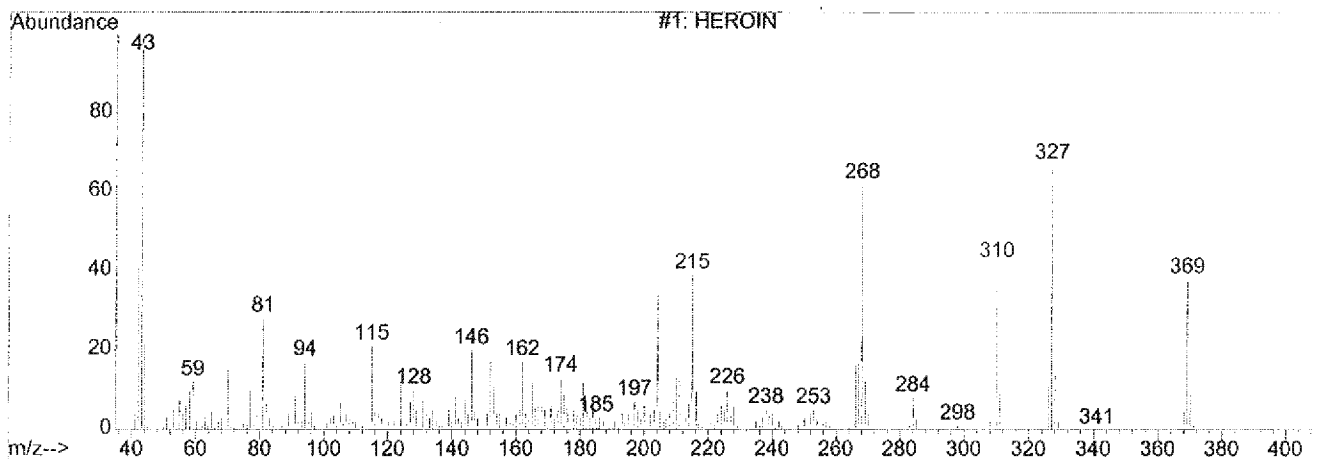
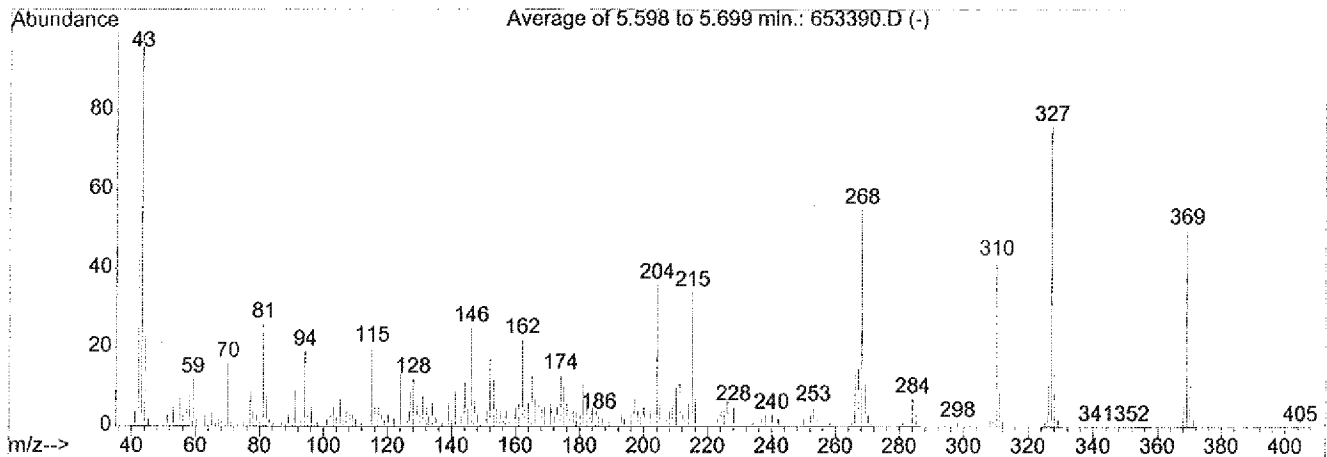
```

File Name       : E:\Q2-2009\SYSTEM4\05_13_09\653390.D
Operator        : DCS
Date Acquired   : 14 May 2009  11:13
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 6
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	5.63	C:\DATABASE\SLI.L HEROIN	000561-27-3	94



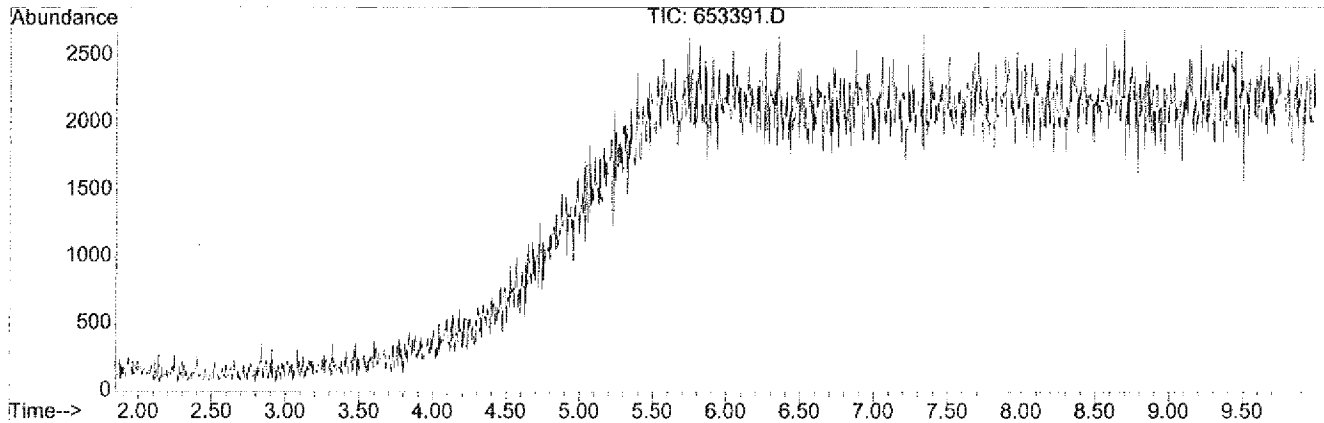
# Area Percent / Library Search Report

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## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653391.D  
Operator : DCS  
Date Acquired : 14 May 2009 11:27  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*



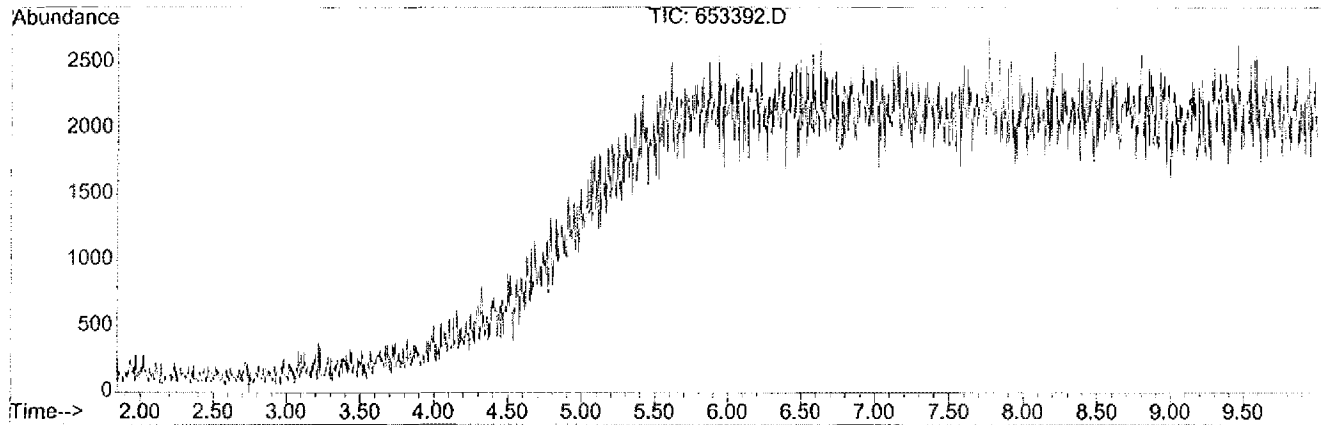
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653392.D  
Operator : DCS  
Date Acquired : 14 May 2009 11:40  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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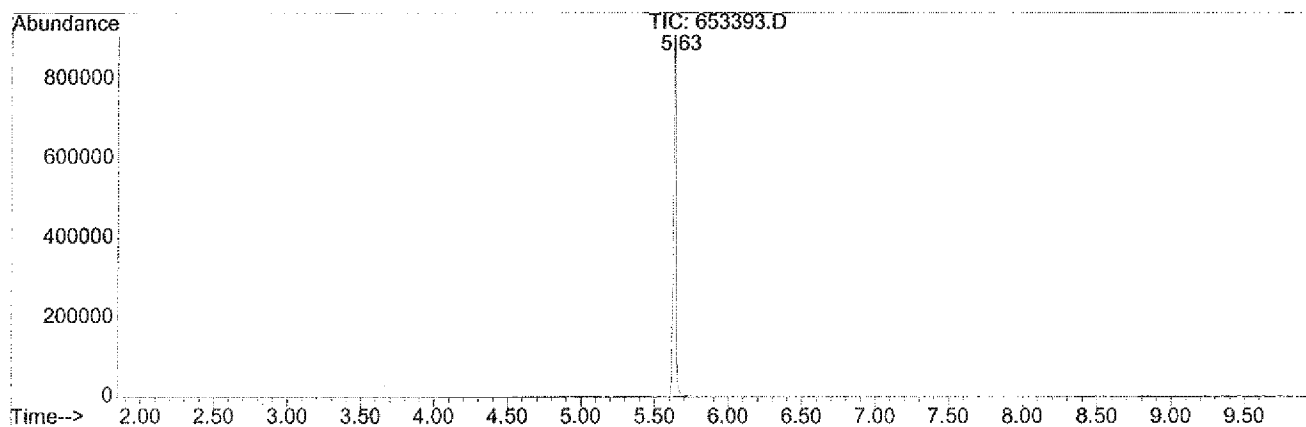
---

\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : E:\Q2-2009\SYSTEM4\05\_13\_09\653393.D  
 Operator : DCS  
 Date Acquired : 14 May 2009 11:54  
 Sample Name : HEROIN STANDARD  
 Submitted by :  
 Vial Number : 4  
 AcquisitionMeth: DRUGS  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
5.630	1120679	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

```

File Name       : E:\Q2-2009\SYSTEM4\05_13_09\653393.D
Operator        : DCS
Date Acquired   : 14 May 2009  11:54
Sample Name     : HEROIN STANDARD
Submitted by    :
Vial Number     : 4
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	5.63	C:\DATABASE\SLI.L HEROIN	000561-27-3	99

